



OmniTech™

ABS GR20

20% Glass Reinforced, General Purpose ABS

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	4	4
Specific Gravity		D792	1.19	1.19
Filler/Reinforcement	%	D2584	20	20
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.5	80
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	10,000	69
Tensile Elongation	%	D638	2	2
Flexural Modulus	psi (MPa)	D790	800,000	5,516
Flexural Strength	psi (MPa)	D790	17,500	121
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	200	93
FLAMMABILITY				
Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
RECOMMENDED PROCESSING CONDITIONS				
Drying Temperature			190° F	
Drying Time			4 hrs. max.	
Maximum Moisture			0.02%	
Rear Zone(s)			400 to 480° F	
Middle Zone(s)			420 to 500° F	
Front Zone(s)			420 to 500° F	
Nozzle			420 to 500° F	
Mold Temperature			80 to 140° F	
Melt Temperature			420 to 500° F	
Back Pressure			50 to 100 psi	

Values are based on natural or black materials unless otherwise noted. Properties and values herein are based on laboratory test specimens and should not be used to establish minimum specification limits or fabricate tooling.

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation.